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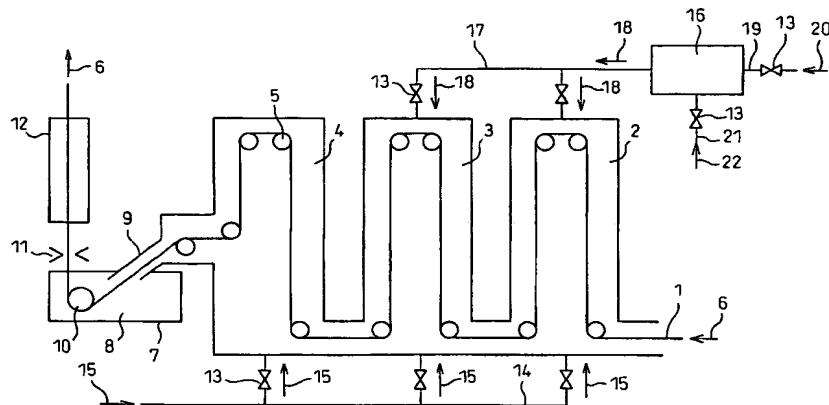
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(54) Title: PROCESS OF PRODUCTION AND PRODUCTION SYSTEM OF HIGH STRENGTH GALVANNEALED STEEL SHEET



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(57) Abstract: A process of production for producing a high strength galvannealed steel sheet by a hot-dip galvanized steel sheet production equipment using an all-radiant tube type annealing furnace and a production equipment for the same are provided, comprising continuously hot-dip galvanizing a high-strength steel sheet having a content of Si of 0.4 to 2.0 wt.% during which making the atmosphere of the reducing zone an atmosphere containing H₂ to 1 to 60 wt.% and comprised of the balance of N₂, H₂O, O, CO₂, CO, and unavoidable impurities, controlling the log (PCO₂/PH₂) of the carbon dioxide partial pressure and hydrogen partial pressure in the atmosphere to log (PCO₂/PH₂) ≤ -0.5 and the log (PCO₂/PH₂) of the water partial pressure and hydrogen partial pressure to log (PH₂O/PH₂) ≤ -0.5, and controlling the log (P_T/PH₂) of the total partial pressure P_T of the carbon dioxide partial pressure PCO₂ and water partial pressure PH₂O and the hydrogen partial pressure to -3 ≤ log(P_T/PH₂) ≤ -0.5.



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